

Application Type Renewal  
Facility Type Non-Municipal  
Major / Minor Minor

## NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0032077  
APS ID 650873  
Authorization ID 1499829

### Applicant and Facility Information

Applicant Name	<u>PA DCNR</u>	Facility Name	<u>Tuscarora State Park Sewer</u>
Applicant Address	<u>687 Tuscarora Park Road</u> <u>Barnesville, PA 18214-2810</u>	Facility Address	<u>687 Tuscarora Park Road</u> <u>Barnesville, PA 18214</u>
Applicant Contact	<u>Robert Sweeney</u>	Facility Contact	<u>Robert Sweeney</u>
Applicant Phone	<u>(570) 467-2404</u>	Facility Phone	<u>(570) 467-2404</u>
Client ID	<u>52524</u>	Site ID	<u>447662</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Rush Township</u>
Connection Status		County	<u>Schuylkill</u>
Date Application Received	<u>September 10, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>September 23, 2024</u>	If No, Reason	
Purpose of Application	<u>Renewal of existing NPDES permit to discharge treated sewage effluent.</u>		

### Summary of Review


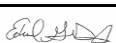
The applicant is requesting the renewal of an NPDES permit to discharge up to 0.026 MGD of treated sewage into Locust Creek, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 3-A (Upper Schuylkill River). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

A final Total Maximum Daily Load (TMDL) exists for the Little Schuylkill River Watershed. The TMDL addresses metals (iron, manganese, and aluminum) associated with acid mine drainage (AMD). The TMDL also addresses siltation. There is no approved Waste Load Allocation (WLA) for this facility. Since this is a sewage discharge with no industrial contributors, no appreciable quantities of these metals are expected to be present in the effluent.

The system for this facility is primary treatment, followed by extended aeration and clarifier, and finally uses chlorine contact for disinfection. This facility also uses an activated sludge system. Calcium Hypochlorite is added for disinfection and Soda Ash is added for pH adjustment.

Applicant did not report sludge information on application and has not submitted sludge reporting form through eDMR. An inspection report dated 6/22/2023 indicates sludge is hauled offsite every fall by an independent contractor. During the inspection, the facility received the non-compliance: 25 Pa. Code 92a.41(a)(12): Failure to submit monitoring reports or properly complete monitoring reports. Sewage sludge/Biosolids Production and Disposal Supplemental Form needs to be completed and submitted with each monthly eDMR.

There are no representative stream gages in the vicinity of the outfall. The default LFY of 0.1 cfs/mi<sup>2</sup> was chosen to model the discharge. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA as well as the "measure" tool. Drainage areas were delineated using USGS's StreamStats Interactive Map and elevations were

Approve	Deny	Signatures	Date
X		 William Hon / Environmental Engineer Specialist	August 27, 2025
X		 Edward Dudick, P.E. / Environmental Engineer Manager	August 28, 2025

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obtained using the elevation profile feature of StreamStats (see Watershed Information attachment). Q7-10 for the point of first use was determined using Streamstats.

E. Coli monitoring requirements will be introduced into the new permit according to PA DEP policy for individual sewage effluent limitations. E. Coli requirements for a treatment plant with less than .05 MGD discharge is found in the SOP for establishing effluent limitations for individual sewage.

Limitations for pH, TRC, Ammonia-Nitrogen, CBOD5, Total Suspended Solids, DO, and Fecal Coliform are technology-based and carried over from the previous permit. The annual monitoring and reporting for Total Nitrogen, Total Phosphorous, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in this permit. WQM 7.0 and TRC modeling did not recommend more stringent limitations.

pH, DO, and TRC have 1/day monitoring/reporting requirements between May 1 and September 30 and 3/week monitoring/reporting requirements between October 1 and April 30 (as per agreement between DCNR and DEP Central Office). All monitoring & sampling requirements have been verified against Table 6-3 of the Permit Writer's Manual and the SOP for Establishing Effluent Limits in Individual Sewage Treatment Facilities.

There is no DRBC docket associated with this facility.

Special conditions added in to the NPDES permit are as follows:

- Part C.2: Chlorine Minimization
- Part C.20: DRBC
- Part C.110A: Solids Management

The previous inspection performed at this facility was a compliance evaluation that occurred on June 22, 2023 and resulted in zero (0) NOVs and two (2) issues of non-compliance, both related to no submitting sludge reporting in eDMR. There are no open violations in the Clean Water Program that would warrant the withholding of the issuance of this permit.

Recommend approval.

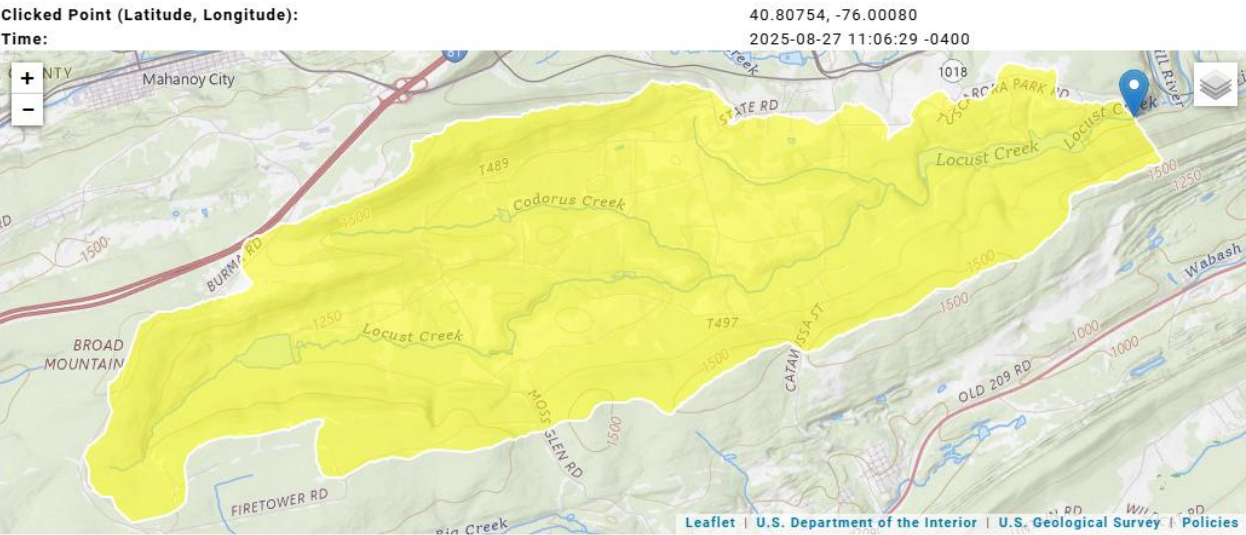
Modeling Inputs:

Tuscarora State Park

PT1 @ Outfall 001: Locust Creek, 2254. 3A, Upper Schuylkill River, Trout Stocking, TMDL, CWF, MF

RMI: .65 (for modeling)

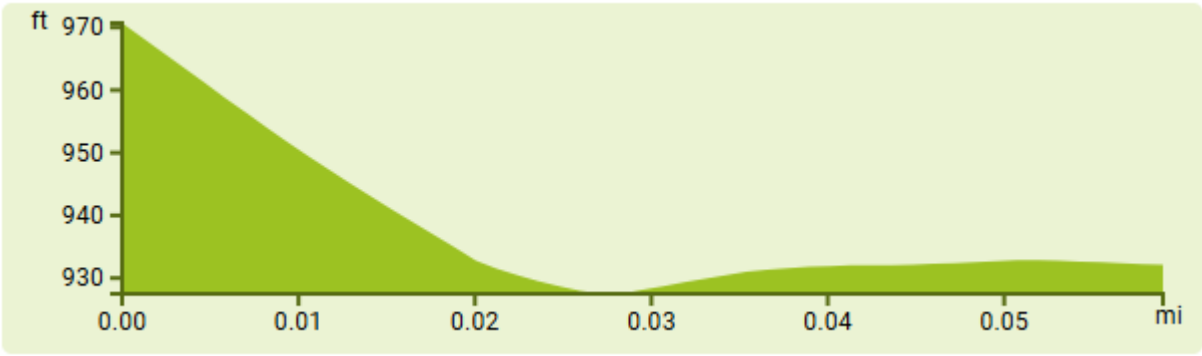
Summary of Review



+ Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	13.2	square miles
7 Day 10 Year Low Flow		2.22	ft <sup>3</sup> /s



40.80763      -76.00070      927.49

PT 2 A conflux w/ Little Schuylkill River  
RMI: .01 (for modeling)

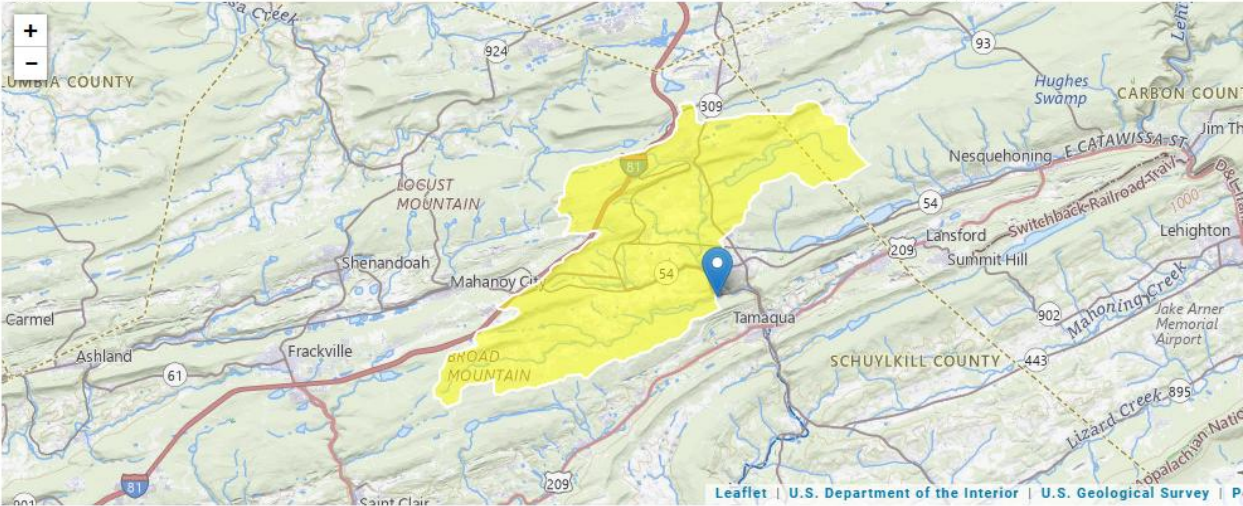
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Clicked Point (Latitude, Longitude):

40.80907, -75.99539

Time:

2025-08-27 11:17:01 -0400

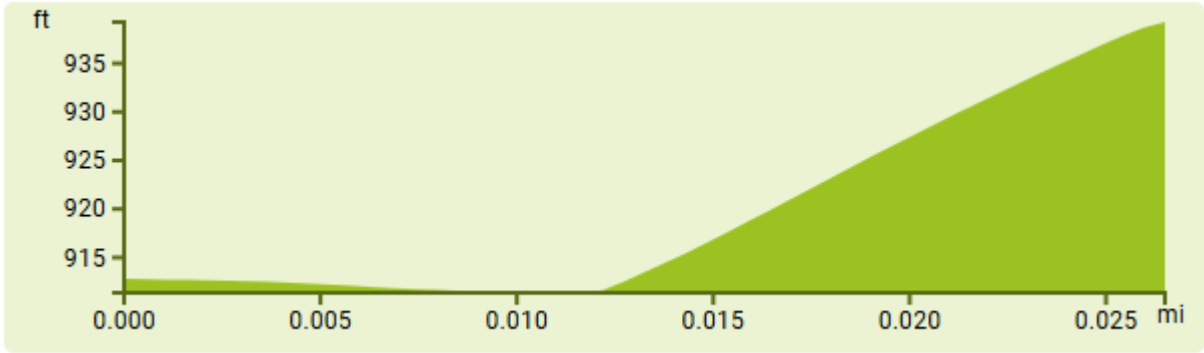


Collaps

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	42	square miles

7 Day 10 Year Low Flow 7.43 ft^3/s



40.80912 -75.99520 911.37

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Analysis Results WQM 7.0

Hydrodynamics

NH3-N Allocations

D.O. Allocations

D.O. Simulation

Effluent Limitations

RMI

Discharge Name

Permit Number

Disc Flow (mgd)

0.65

Tuscaroga SP

PA0032077

0.0260

Parameter

Effluent Limit 30 Day Average (mg/L)

Effluent Limit Maximum (mg/L)

Effluent Limit Minimum (mg/L)

CBOD5

25

NH3-N

25

50

Dissolved Oxygen

3

Record: 1 of 1

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TRC EVALUATION					
Input appropriate values in A3:A9 and D3:D9					
2.22	= Q stream (cfs)	0.5	= CV Daily		
0.026	= Q discharge (MGD)	0.5	= CV Hourly		
30	= no. samples	1	= AFC_Partial Mix Factor		
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor		
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)		
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)		
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)		
Source	Reference	AFC Calculations		Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 17.626		1.3.2.iii	WLA cfc = 17.176
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373		5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 6.568		5.1d	LTA_cfc = 9.985
Source	Effluent Limit Calculations				
PENTOXSD TRG	5.1f	AML MULT = 1.231			
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500		BAT/BPJ	
		INST MAX LIMIT (mg/l) = 1.635			

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-

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day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.



Pennsylvania  
**Department of  
Environmental Protection**